

AMERITRON®

2012 Amateur Radio Catalog

High Power Vacuum Tube Amplifiers, 600 Watts to Legal Limit!

AL-811, \$799



600 Watts . . . Page 88

AL-811H, \$949



800 Watts . . . Page 89

AL-80B, \$1495



1000 Watts . . . Page 90

AL-572, \$1795



1300 Watts . . . Page 91

AL-800H, \$3895



1500 Watts . . . Page 91

AL-1500, \$3795



1500 Watts . . . Page 92

Solid State No Tune Amplifiers, 500 Watts to 1200 Watts!

ALS-500M, \$899



500 Watt Mobile . . . Page 95

**ALS-600,
\$1499**



600 Watts
Page 94

ALS-1300, \$2899



1200 Watts . . . Page 93

High Power Accessories for Your High Power Station!

Remote Switches



Page
101

SWR/Wattmeters



Page 93

Antenna Tuners



Page 100

Dummy Loads



Page 100

Power Supplies



Page 95

. . . the World's High Power Leader!

AL-811 . . . 600 WATTS . . . \$799!

More hams use Ameritron AL-811 amplifiers than any other amplifier in the world . . . The AL-811 has earned a worldwide reputation for legendary quality, flawless performance, proven reliability and superb customer service . . .



Ameritron's AL-811 linear amplifier gives you plenty of power to bust through QRM!

You get a quiet desktop linear that's so compact it'll slide right into your operating position -- you'll hardly know it's there . . . until QRM sets in. And you can conveniently plug it into your nearest 120 VAC outlet -- no special wiring needed.

You get three tough 811A transmitting tubes, extra heavy duty power supply, all HF band coverage, pressurized ventilation, tuned input, dual illuminated meters, adjustable ALC and much more for an incredible \$799!

The First 600 Watts makes the difference

The AL-811 gives you 600 Watts PEP output -- that's nearly 2 full S-units over your barefoot rig. That could mean the difference between hearing, "You're Q-5 armchair copy" and "Sorry, can't copy you, too much QRM."

Now you won't have to stand aside while the *big guns* steal your DX. You'll log some of those stations first.

All band, all mode Coverage

AL-811 covers all HF bands. No compromise on WARC and most MARS bands -- you get a 100% rated output.

Operate AL-811 on all modes. Get 600 Watts output PEP SSB and 500 Watts output CW. You even get 300 Watts on continuous carrier modes like RTTY, SSTV, and FM.

The low cost 811A tubes resist failure because . . . **First**, they're constructed with widely spaced elements that minimize the chance of elements touching and causing a short -- even if the plate gets hot enough to melt.

Second, they use a directly

heated thoriated tungsten filament cathode that prevents the electron emitting layer from instantly stripping off -- even if mistuning causes a sudden, severe current overload.

The Ameritron AL-811 is excellent for the newcomer

AL-811
\$799
Suggested Retail

load. That's excellent high voltage regulation!

Rectifier diodes are rated for a massive surge current of 200 amps -- won't blow even if you accidentally short the high voltage supply.

Wire wound, 7 Watt, 50 K Ohm equalizing resistors safely protect each filter capacitor -- *not* 2 Watt, 100 K Ohm carbon composition resistors that can open and cause filter capacitors to explode or fail. Ameritron's AL-811 power supply is built tough so you get peak performance year after year.

Tuned input provides excellent load for any rig

A Pi-Network tuned input provides a 50 Ohm load for your rig. Even fussy solid state rigs can deliver their full drive to the AL-811.

with efficiencies close to 70%. Even a 3:1 SWR load won't damage tubes/tank components.

A ball bearing vernier reduction drive makes plate tuning safe, precise and easy.

A quiet blower pressurizes the cabinet with a large volume of air flow. It keeps the 811A tube temperature *well below* the tube manufacturer's rating -- even with a key down carrier at 400 Watts output -- without the *overwhelming* noise of over-sized fans.

Two illuminated meters

Two illuminated meters give you a clear picture of your AL-811 operating conditions so you can tell right away if something is wrong.

The Grid Current meter continuously checks for improper loading. The other meter switches between high voltage and plate current to warn of abnormal conditions.

Exclusive Adapt-A-Volt™ power transformer

Too high of line voltage stresses components and causes them to wear out and fail. Too low line voltage causes a "soft tube" effect -- low output and signal distortion.

Ameritron's exclusive Adapt-A-Volt™ power transformer has a special buck-boost winding that lets you compensate for stressful high line voltage and performance robbing low line voltage. Your components last longer and gives you peak performance -- regardless of your line voltage.

Plus much, much more . . .

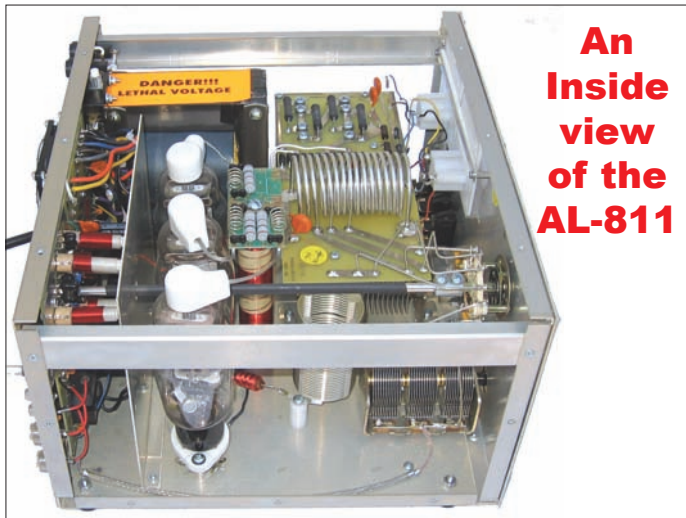
An Operate/Standby switch lets you run barefoot, but you can instantly switch to full power if needed. A transmit LED tells you when your rig is keying your AL-811. A 12 VDC keying relay makes it compatible with all solid state and tube rigs.

Back-pulse cancelling diode protects the rig keying circuit. Shielded RF compartment. One year limited warranty.

Compact 16Dx13³/₄Wx8 H". 30 lbs. UPS shippable, has transformer installed and wired for 120 VAC. Draws 8 amps at 120 VAC. Export model is AL-811X wired for 240 VAC.

AMERITRON

116 Willow Road, Starkville, MS 39759
Tech: 662-323-8211 • Fax: 662-323-6551
www.ameritron.com



An Inside view of the AL-811

because it's tough enough to withstand momentary mistuning. And the tubes are so inexpensive that you can replace one for mere pocket change.

Extra heavy duty power supply gives you peak performance year after year

The heart of the AL-811 power supply is its heavy duty power transformer with a *high silicon steel* core weighing a hefty 17 pounds.

A full wave bridge using 67.5 mfd of total capacitance (four 270 ufd, 450 volt capacitors) produces 1500 Volts under full load and 1700 Volts no

load. Low loss slug tuned coils -- tunable from the rear panel -- let you optimize performance. High quality low drift silver mica capacitors maintain proper tuning.

Output tank:

Optimum Q on each band

The low loss pi-network output tank has been carefully designed for optimum Q on each band and built with top quality RF components.

The result is peak performance over each band, wide impedance matching range and exceptionally smooth tuning

AMERITRON...the world's high power leader!

AMERITRON® AL-811H

800 WATTS OUT . . . \$949!



Improves stability and performance on higher bands.

- **Input Tune Circuit:** Adjustable rear panel slug tuned input circuit.
- **ALC Control:** Built-in adjustable ALC control.

- **Vernier Reduction Drives:** Tuning and loading reduction drives make tuning smooth and easy.

- **Dual Illuminated Meters:** Monitor vital operating functions.

- **Heavy Duty Power Supply:** 17 pounds, high silicone steel core transformer and computer grade filter capacitor gives 1700 Volts high voltage at no load and 1500 Volts at full load.

- **Multi-Voltage Operation:** User selectable for 100/110/120/210/220/230 VAC operation. Shipped with transformer installed and wired for 120 VAC for domestic model or 240 VAC for export model.

- **Air-Cooled:** Quiet pressurized ventilation keeps tubes safely cooled.

- **QSK Compatible:** Optional external electronic pin diode Transmit/Receive switch. **QSK-5, \$359.95.** See page 96 for details.

- **Attractive Lexan front decal**

- **One Year AMERITRON warranty.**

- **Dimensions:** 8 1/4"H x 13 3/4"W x 15 1/2"D inches.
- **Operating Weight:** 32 lbs. • **Made in USA**

AL-811H

\$949

Suggested Retail

Only the AMERITRON AL-811H gives you four *fully neutralized* 811A transmitting tubes. You get absolute stability and superb performance on higher bands that can't be matched by un-neutralized tubes.

AMERITRON mounts the 811A tubes vertically -- not horizontally -- to prevent hot tube elements from sagging and shorting out. Others, using potentially damaging horizontal mounting, require hard-to-find 811A tubes to retard harmful sagging and shorting.

Powerful 20 CFM computer grade fan -- not an open frame phonograph motor -- draws in cool air to pressurize the cabinet and efficiently cool your 811A tubes for an

extra long life.

You also get efficient full-size heavy duty tank coils, computer grade capacitors, heavy duty high silicon core power transformer, slug tuned input coils, operate/standby switch, transmit LED, ALC, dual meters, QSK compatibility with QSK-5 option and much more!

SPECIFICATIONS:

- **Output power:** 800 Watts PEP, 600 Watts CW.

- **All Band Operation:** Covers 160-15 Meters including WARC bands. Can be user modified for 12 and 10 Meters.

- **Four 811A Tubes:** Uses four rugged, fully neutralized low cost 811A PA tubes.

- **Vertical Tube Mounting:** Prevents shorting of tube filament/grid, prolongs tube life.

- **Fully Neutralized:**

New! Get the AL-811HD with 572B tubes . . . \$1249

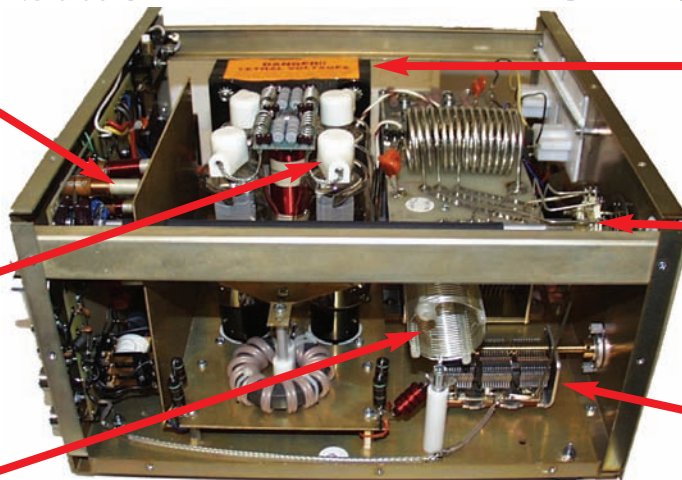
AL-811HD gives you the AL-811H with four 572B tubes installed. Get a higher power tank circuit and grid overload protection. Grid Overload Protection protects the tubes from excessive grid current due to mistuning and it protects against excessive drive power. Four 572B tubes give you more plate dissipation than a single 3-500Z tube. AL-811HD gives you 800 Watts output in SSB and 600 Watts for continuous duty in CW, RTTY, SSTV and AM operation.

A look inside AMERITRON's AL-811H

Pi-Network Tuned input provides 50 Ohm load for your rig.

Four fully neutralized and rugged 811A transmitting tubes vertically mounted.

Output tank circuit with optimum "Q" for each band



Heavy duty power supply: 17 lb. high silicone steel transformer and computer grade capacitors.

Heavy duty band switch

Pi-network gives smooth tuning and excellent harmonic suppression.

AMERITRON Doubles Average SSB Power

AL-80B kilowatt output desktop linear can double your average SSB power output with high-level RF processing...runs cooler because its 3-500 tube completely turns off between words

Ameritron's AL-80B kilowatt output desktop linear can double your average SSB power output with high-level RF processing using Ameritron's exclusive *Dynamic ALC™*.

AL-80B
\$1495
Suggested
Retail

You get cooler operation because the AL-80B's exclusive *Instantaneous RF Bias™* completely turns off the classic 3-500 tube between words. It saves hundreds of watts wasted as heat.

You get a full kilowatt PEP output from a whisper quiet desktop linear. It's a compact 8 1/2"Hx14Dx15 1/2" inches and plugs into your nearest 120 VAC outlet. Covers all bands 160-15 Meters, including WARC and MARS (10/12 Meters modifiable; FCC license required).

You get 800 watts output on CW, 500 watts output on RTTY, an extra heavy duty power supply, genuine 3-500 tube, nearly 70% efficiency, tuned input, Pi/Pi-L output, inrush current protection, multi-voltage transformer, dual cross-needle meters, QSK compatibility, two-year warranty, made in the USA, plus much more!

Dynamic ALC™ doubles average SSB power

The AL-80B's exclusive *Dynamic ALC™* gives you high-level low-distortion RF processing. It can more than double your average SSB power for up to 6 dB improvement in intelligibility, maximizing talk power without distortion/splatter.

A convenient front panel control lets you adjust output power level.

The AL-80B's exclusive *Instantaneous RF Bias™* turns off the classic 3-500 tube (except filaments) between words and dots and dashes, eliminating hundreds of watts wasted as heat for cooler operation and longer component life.



The guts of the AL-80B is its heavy duty power supply. A 26 pound transformer using a high silicone steel core, computer grade capacitors, heavy duty bleeders and ten 3 amp, 1000 volt power rectifiers give you a stiff 2700 volts fully loaded. Many amps using two 3-500s use such small power supplies they don't deliver much more power output than the AL-80B.

The AL-80B is built on a rugged steel chassis with a separate fully-shielded RF compartment to minimize RFI and TVI.

A whisper quiet internal fan draws in cool air over power supply components and pressurizes the classic 3-500 tube compartment to remove heat for longest life.

Tuned input lets your rig deliver full output

50 Ohm broadband Pi-Network tuned input is used. Even fussy solid state transmitters will deliver full power!

A carefully designed Pi/Pi-L output network using the optimum Q for each band gives exceptionally smooth tuning, extremely wide matching range, full band coverage, and peak

performance at all power levels.

Step-Start Inrush

Protection™ stops damaging inrush current with a start up sequence that's easy on your tube and power supply components.

Our exclusive *Multi-Voltage Power Transformer™* lets you optimize for 14 different primary line voltages. The high voltage secondary can be wired to reduce plate voltage for efficient operation below 400 watts for use outside the USA.

AMERITRON's dual LED illuminated cross-needle meters give you four separate meters to monitor your operating conditions -- you can tell right away if something is wrong. Grid and plate current and forward output power are monitored for improper loading and abnormal conditions.

The fourth meter can be switched to monitor your 3-500 tube DC plate voltage, reflected PEP power, antenna system SWR, ALC voltage to your rig, and the grid current that starts ALC action -- get a clear picture of your AL-80B.

The T/R (transmit/ receive) relay in the AL-80B switches nearly as fast as some vacuum relay QSK T/R switches.

Operate/Standby switch lets you run barefoot, but can instantly switch to full power if needed.

Has transmit LED; 12 VDC, 200 mA accessory jack; 12 VDC keying relay for solid state and tube rigs; tough Lexan over-aluminum front panel. Two-year warranty.

Weights 48 lb. Power required: 120 VAC, 12A. Made in the U.S.A.

An inside look at AMERITRON'S AL-80B

Dual LED illuminated cross-needle meters give you four separate indicators that monitor your operating conditions -- PEP forward power, PEP reflected power, SWR, Grid Current, Plate Current, Plate Voltage and ALC.

Heavy Duty Bandswitch.

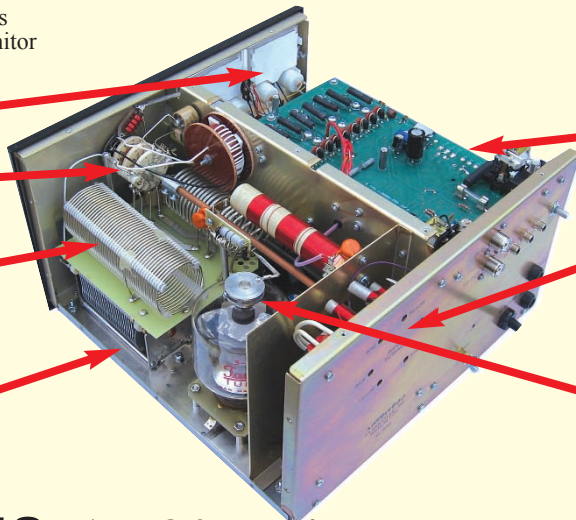
Tank coils spaced away from chassis for optimum "Q".

Pi-Network gives smooth tuning and full band coverage, even on 160 and 80 Meters.

Heavy duty power supply: 26 lb. high silicone steel transformer and computer grade capacitors.

Rear panel adjustable input Pi-Network.

Genuine classic 3-500 Tube.



AMERITRON'S AL-80B Kilowatt Desktop Linear

SPECIFICATIONS:

Frequency Coverage: 1.8, 3.5, 7, 14, 21 MHz and WARC bands.

Export/User modified models include 10/12 Meters.

Input Circuit: Adjustable Pi-Network, VSWR 1.3:1 or less at resonance.

Output Circuit: Pi-L/Pi-Network.

Input Bandwidth: 20% for 2:1 VSWR or better.

Drive Requirement: 85 Watts for 800 Watt CW output. 10 dB gain.

Shipping Weight: Amplifier, 54 lbs.; tube, 3 lb.

Operating Weight: 48 pounds.

Efficiency: CW/SSB better than 66%.

Dimensions: 15 1/4"Dx14Wx8 1/2"H inches.

AMERITRON'S four 572B tubes . . . 1300 Watts . . . \$1795!

AMERITRON creates a new class of Near Legal Limit™ amplifiers with the AL-572 . . .

you get nearly full legal SSB power output for 65% of the price of a full legal limit amplifier . . .

No one will ever know the difference!



You get 1300 Watts PEP SSB nominal power out on amateur bands 160 through 15 Meters!

Four rugged 572B tubes give you near legal limit power and instant 3-second warm-up time.

This whisper quiet, desktop linear plugs into your nearest 120 VAC outlet -- no special wiring needed.

You get . . . Ameritron's exclusive Instantaneous RF Bias™, Dynamic ALC™, Parasitic Killer™, Step-Start™ Inrush Protection, heavy duty power supply, fully neutralized tubes, Pi/Pi-L network, tuned input, pressurized ventilation, dual LED lighted Cross-Needle meters, multi-voltage power transformer, front panel ALC control, 6:1 vernier reduction drives, and much more!

The AMERITRON AL-572 gives you 1300 Watts PEP SSB nominal power output on 160 through 15 Meters, using four rugged 572B tubes with 3 second warm-up time. This whisper quiet, desktop linear plugs into your 120 VAC outlet - no spe-

AL-572

\$1795

Suggested
Retail

cial wiring needed.

You get heavy duty power supply; fully neutralized tubes; pressurized ventilation; multi-voltage power transformer; front panel ALC control; 6:1 vernier drives ... and more!

You'll typically get 1300 Watts PEP SSB, 1000 Watts CW continuous, on all amateur bands from 160 through 15 Meters

AMERITRON's exclusive Instantaneous RF Bias™ completely turns off the 572B tubes between words and dots and dashes, for cooler operation and longer component life, while Dynamic ALC™ can more than double your average SSB power.

AMERITRON's Step-Start™ Inrush Protection limits inrush current to your power supply and tube filament, greatly extending tube life and amplifier components.

A heavy duty power supply using a high silicon steel transformer delivers 2500 Volts at 0.7 Amps with good regulation.

A Pi-Network tuned input using slug tuned coils provides a good 50 ohm load for your rig. A quiet internal fan draws in cool air over power supply components and pressurizes the tube compartment.

Grid current, plate current and forward PEP output power are continuously monitored by dual, lighted cross-needle meters.

A fourth scale switches among peak reflected power (and SWR), high voltage, ALC threshold, and ALC output voltage.

Ameritron's multi-voltage power transformer has a unique buck-boost winding. It lets you select from 14 primary voltages centered on 115 and 230 VAC.

You can match your AL-572 to your AC line voltage so you'll get peak performance and long component life -- regardless of your line voltage.

An Operate/Standby switch lets you run barefoot, but you can instantly switch to full power if you need it. Transmit LED: 12 VDC. 200 mA accessory jack; 12 VDC keying relay for solid state/tube rigs; tough, nearly indestructible Lexan-over-aluminum front panel. Shipped with transformer installed. Draws 16 A at 120 VAC.

For lightning fast QSK operation use the optional Ameritron electronic PIN diode QSK switch. Shipped wired for 120 VAC. Weighs 40 lb. Power required: 120 VAC, 16 amps. Made in the USA.

Inside
view
of
AL-572



AMERITRON AL-800/AL-800H HF Linear Amplifiers: High POWER in a Compact, Desktop Package

Select the 1250 Watt PEP AL-800 single 3CX800A7 near-legal-limit amplifier, or the 1500 Watt PEP dual 3CX800A7 amplifier that loafs along at full legal limit -- and don't worry about desk space.



AL-800F
\$1995

Single Import tube

AL-800
\$2595

One Eimac® tube

Suggested Retail

AL-800HF
\$2745

Two Import tubes

AL-800H
\$3895

Two Eimac® tubes

Ameritron's compact AL-800 /AL-800H amps are both desktop linears with plenty of muscle!

At 14.25Wx8.5H x14.5D inches, the more compact AL-800 uses a single 3CX800A7 to provide 1250 Watts PEP SSB and 850 Watts CW with 85 Watts typical drive level.

And the AL-800 will even run from a 20-Amp 120 VAC line source if desired. AL-800 typically draws 17 Amps peak current at 120VAC, or 8 Amps

at 240 VAC and weighs just 51 lbs.

For more power and headroom, the AL-800H uses a pair of 3CX800A7 tubes to easily provide 1500 Watts PEP/CW with a typical drive level of just 55 Watts.

The AL-800H draws 14 Amps peak current at 240 VAC (1500 Watts CW output) and weighs just 52 lbs.

Other than power differences, these amplifiers are very similar in features and operation. Both cover 160-15 Meters, and are modifiable to cover 12/10 M with proof of your FCC license.

Both include a Step-Start™ input power circuit, a time delay circuit to allow for tube warm-up, thermal overload protection, grid current limiting to protect your tube(s), a Dynamic Bias™ circuit and a built-in multi-voltage (14 user-selectable AC line voltages from 90-140; 200-250 VAC) heavy duty power transformer. Hefty 32 lb. grain orientated silicone steel core transformer.

Front panel monitoring and tuning functions are also virtually identical. Both amplifiers include a Standby/Operate switch for barefoot or full power operation, an ALC SET control, Transmit and Fault LEDs.

Dual LED illuminated Cross-Needle

meters provide detailed monitoring of amplifier performance. The left meter continuously measures grid and plate currents, and the right meter continuously measures peak RF output power on one scale, and plate voltage, Reflected power and SWR, ALC voltage, and ALC adjustment set.

Quiet pressurized ventilation keeps tubes safely cooled. A Pi/Pi-L output network gives you smooth tuning and wide matching range. Vernier reduction drives make tuning and loading adjustments smooth and easy.

Inside view of AL-800H



AMERITRON *super legal limit amplifiers*

These three rugged linears all use a super heavy duty Hypersil[®] power supply capable of 2500 Watts!

Ameritron's AL-1500 Amplifier with Eimac[®] 3CX1500A7



AL-1500
\$3795
Eimac[®] tube
Suggested Retail
AL-1500F
\$3195
Import tube

Feel the need for maximum legal HF output power? AMERITRON's AL-1500 will give it to you.

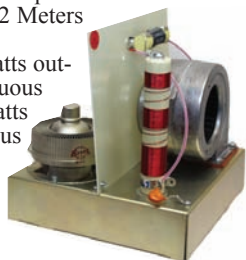
Using the *Herculean* 3CX1500A/ 8877 ceramic tube with its high power gain, the AL-1500 needs

only 65 watts of drive from your exciter to deliver the goods-- transceivers and other exciters just loaf at 1500 watts out.

Cool, efficient operation is provided by a forced-air system with tube chimney, using a commercial grade die-cast ball bearing blower for maximum tube life. The tube is further protected by time delay starting and automatic over-current shutoff to remove drive power if the amplifier is mis-tuned.

You get full legal power output from a whisper quiet desktop linear. Measures 18 1/2" x 17" x 10 1/2" inches, and covers all bands, 160-15 Meters, including WARC and MARS (80% of full output set to nearest amateur band). 10/12 Meters modifiable.

You get 1500 watts output (1/2 hour continuous carrier) and 2500 watts (30 second continuous carrier and 2500 watts- plus 30 minute PEP two-tone test). You get



all this power, plus, 65% efficiency, pi-network tuned input, Pi/Pi-L output, inrush current protection, multi-voltage transformer, QSK compatibility, and a one-year warranty.

The guts of the AL-1500 is its heavy duty power supply, with a 32 lb. *Hypersil[®]* transformer using a high silicone steel core, computer grade capacitors (33 mfd total), heavy duty bleeders and twenty 3 amp, 1000 volt power rectifiers give you a stiff 3300 volts fully loaded.

The AL-1500 is built on a rugged steel chassis with a separate RF compartment fully shielded to keep RF from leaking out, keeping RFI and TVI to a minimum.

New LED Meters!



An inside look at the AMERITRON AL-1500

Superb RF design and layout, Hi-Q tank circuit and commercially rated RF power components give you 65% plate efficiency over the entire operating range. Power goes into the antenna instead of into heat.

50-ohm broadband Pi-Network tuned input with slug-tuned coils is used. Even fussy solid state transmitters deliver full power!

A carefully designed Pi/Pi-L output network using the optimum Q for each band with vernier ball drives gives smooth tuning, wide matching range, full band coverage, and peak performance at all power levels.

The AL-1500's grid overload circuit pro-

tections the tube from excessive grid current; if 175 mA of peak grid current is reached, the "OPR" LED will no longer light and the amplifier will go into a bypass condition until reset by the operator.

Transformer provides many options

Since excessive line voltage stresses components (low line voltage causes a "soft tube" effect, for example), Ameritron's exclusive Multi-Voltage Power Transformer[™] lets you optimize for different line voltages. Select from 4 different primary voltage ranges, from 205-219 VAC to 252 to 265 VAC. The amplifier comes wired from the factory for 240 VAC.

The AL-1500 has two illuminated panel meters. Grid Current meter provides continuous reading of the critical grid current and indicates proper, safe amplifier operation.

The other meter can be selected to read Plate Voltage, Plate Current, Peak RF Watts, or ALC. A SSB/CW selector switch chooses bias voltage for best linearity on SSB or lowest dissipation on CW.

The Operate/Standby switch, in *Standby*, maintains the tube's filament and plate voltages while allowing "barefoot" operation.

Includes 12 volt DC auxiliary jack and an "XMT" LED to provide indication of proper amplifier keying by the exciter.

Power required: 240 VAC, 15 amps.

Frequency coverage:

1.8, 3.5, 7, 14, 21 MHz & Warc bands. User-modifiable for 28 MHz (FCC license required).

Size: 18 1/2" x 17" x 10 1/2". 77 pounds. UPS shippable, 3 boxes.



Hypersil[®] Transformer weighs 32 lbs.

Slug Core Tuning

Tool 965-6204, \$3.00. Plastic tuning stick for adjusting slug cores. .1 inch hex end, 7 1/4" long. Fits Ameritron tube amplifier input coils.

Ameritron's 3CX1200Z7 Amplifier



AL-1200
\$3459
Suggested Retail

AL-1500 amplifier that loafs at full power. A 3CX1200Z7 has the lowest quantity history of field replacement of any modern transmitting tube that we use. It has the ruggedness and power handling of ceramic tubes combined with the long-life of thoriated tungsten filaments.

Ham Radio's toughest tube -- the Eimac[®] 3CX1200Z7 is in ham radio's toughest amplifier! It has a 50-Watt control grid dissipation. It also has the same super heavy duty power supply that's in our



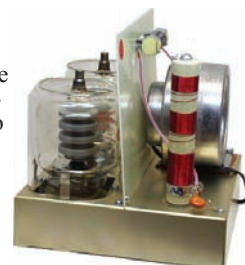
Ameritron's Dual 3-500Z Amplifier



AL-82
\$2745
Suggested Retail

fiers using 3-500Zs can't give you 1500 Watts because their lightweight power supplies can't use these tubes to their full potential. Our AL-82 amplifier uses the same *Hypersil[®]* power transformer and used in the AL-1500 and AL-1200 amplifiers -- *powerful stuff, just loafs at full power!*

This classic linear gives you full legal output using a pair of 3-500Z graphite tubes. Examine the features and component ratings of the AL-82 and compare it to any competing amplifier using two 3-500Zs. Most competing ampli-



Ameritron 1200W Output Solid State Amplifier

1200 Watts PEP Output, Instant bandswitching, no tuning, no warm-up, SWR protected, 1.5-22 MHz... Quiet Variable-Speed Cooling System... PEP Forward/Reflected Metering... PA Balance /ALC Metering and LED Indicator... Front Panel Band and Error LEDs...



ALS-1300
\$2899

Suggested Retail

Call Your Dealer for Your Best Price!

AMERITRON ALS-1300 is a solid state near legal limit™ FET no-tune Amplifier. Get instant bandswitching, no tuning, no warm-up, no tubes to baby and no fuss!

Reliability of the ALS-1300 is insured by using *eight rugged MRF-150 power FETs*. Ameritron's eight FETs are mounted on the dual heavy duty heat sink. They are properly arranged to spread out the heat over a large surface, something that other amplifiers using a single power device cannot do. *Some FETs* actually are a package of several transistors in one large case. This concentrates all of the heat in one small package. They not only are more difficult to cool, if one transistor fails they all have to be replaced.

The ALS-1300 RF deck operates from 50 Volts for efficient, low distortion linear RF power service. It's cooled by a whisper quiet cooling fan. Fan speed is regulated by temperature sensors, assuring minimum noise for adequate cooling.

ALS-1300 runs up to 1200 Watts of clean SSB output power (just 100 Watts drive gives you the full rated 1200 Watts output) for continuous coverage between 1.5-22 MHz. 10/12 Meters available to licensed amateurs with an optional kit (MOD-10MK, \$39.95). Must present FCC license at time of sale.

The operator-friendly layout fits nearly any station configuration. The attractive desktop amplifier unit weighs only 22 pounds. Compact 10Wx6 1/2Hx18D inches.

SWR Protection prevents amplifier damage if you switch to the wrong band, use the wrong antenna or have a high SWR. Over-power protection enables if output forward power or reflected power exceeds a safe level.

Output power is automatically reduced to prevent amplifier damage by controlling ALC to exciter.

LED illuminated Cross-Needle SWR/Wattmeter lets you read SWR, forward and reflected *peak* power simultaneously. You also get ALC, SWR, PA balance and transmit meter and LED indicators. An Operate/Standby switch lets you run "barefoot", but you can instantly switch to full power if needed.

Front-panel ALC control! This *exclusive* Ameritron feature lets you adjust output power on the convenient front panel display.

You also get front panel Operation, Band,

and error LED indicators like reflected power and bandswitch errors.

Enjoy 1200 Watts of *no tune* Solid State power with the Ameritron ALS-1300 amp.

But it gets even better than this! Do you want to place even the main ALS-1300 amplifier out of the way? Do you want the ALS-1300 to change bands automatically when you change bands on your radio?

You now have these options.

A pair of RJ45 remote control interface jacks on the amplifier permits ALS-1300 to be controlled either manually by the optional ALS-500RC (see page 95) Remote Control Head, or automatically by the optional ARI-500 (see below) Auto Band Switch.

The Automatic Band Switch reads band data from your transceiver and automatically changes the ALS-1300 bands as you change bands on your transceiver. A super-clean layout with easy-service modular construction will give you years of operation.

ALS-1300SPS Power Supply



The ALS-1300 is powered by a 50 VDC switching power supply. Comes with pre-wired cable to plug into the ALS-1300. This *hash-free* fully-regulated switching

power supply is only 12 lbs. and measures a compact 10Wx6 1/2Hx9 1/2D in. It can be placed conveniently out-of-the-way at your operating station. Output is 50 VDC at 50 Amps to the ALS-1300. Wired for 220 VAC, selectable to 110 VAC. Draws less than 25 Amps at 110 VAC; 12A at 220 VAC.

Let your rig auto bandswitch your Solid-State Ameritron Amps

The Ameritron ARI-500 *Amplifier Radio Interface* reads band data from your Icom, Yaesu, Kenwood* or Alinco transceiver so they can remotely and automatically band switch your Ameritron Solid State Amps (ALS-500M, ALS-600, and ALS-1300).

Now you can mount your amp out-of-the-way in your trunk, at the back of your motorhome or elsewhere and operate with just this tiny box at your station control.

ARI-500
\$119⁹⁵
Suggested Retail



Works with serial numbers above 13049 (below 13049 requires the ARF-500K, see above). You can add the ALS-500RC for manual bandswitching and data monitoring, etc, see page 95 for description.

*Not compatible with Kenwood TS-480, 2000 rigs.

ARI-500 Cables... \$24.95

Model #	Transceiver
RJ-13D	Icom 706, 7000, 718
RJ-7DI	Icom ACC2, 7 pin
RJ-DB97DK	TS-2000, 570, 870
RJ-DB8MK	Kenwood and compatibles
RJ-DB9Y	FT-847 CAT
RJ-8MY	FT-847 Tuner Port
RJ-8MY2	FT-857D, 897D, 1000MP
RJ-8DY	Yaesu with 8 pin Data

AMERITRON precision peak-reading SWR Wattmeters

Flat Mount Mobile SWR/Wattmeter



AWM-35/H Just 1 5/8" thick - easily mounts on your dashboard for easy viewing. Flat

mount on wall or shelf in your ham shack for best viewing angle. Remote sensor with 25 feet thin, flexible cable lets you place sensor and coax out-of-the-way. Handles full 1500 Watts, 1.8-30 MHz. LED lighted Cross-Needle meter. Active electronics lets you read *true* peak or average power in two power ranges. Has "High SWR" LED. Flat-Mount watt-meter measures 5Wx3 1/4H x1 1/8D"; remote sensor is tiny 3 1/2Wx2 3/4H x2 3/4D". Use 9V battery or 12 VDC.

AWM-35 has 300 Watt low, 3 kW high meter scale.

AWM-35H has 100W low, 1000W high meter scale.

Base Station 1500 Watt SWR/Wattmeter

We painstakingly designed the AWM-30 to make accurate, precise power measurements.

Designed-in-accuracy is the result of a carefully designed directional coupler, an accurate *active* peak reading circuit and a precision d'Arsonval meter movement. Ameritron's AWM-30 reads *true-peak* or average power on a large LED lighted three inch Cross-Needle meter. Handles 1500 Watts, 1.8 to 30 MHz. Has 3000/300 Watt ranges. Reads forward and reflected power and SWR on highly visible dual cross-needle meter movement.

Remote sensor with cable lets you conveniently place sensor. Battery saver turns unit off with no RF applied. Uses 12 VDC or 9 volt battery (not included). Beautiful wrap-around custom metal cabinet looks great in your shack. Compact 4 1/2Wx4 1/2Hx5 1/2D in.

AWM-30
\$149⁹⁵
Suggested Retail



AMERITRON *no tune* Solid State FET Amplifier

No tuning, no fuss, no worries -- just turn on and operate . . . Incredibly low \$1499 includes AC power supply, 600 Watts output, continuous 1.5-22 MHz coverage, instant bandswitching, no warm-up, no tubes to baby, fully SWR protected, extremely quiet, very compact . . .



ALS-600
\$1499

Suggested Retail
(Includes AC Power Supply, ALS-600PS)

AMERITRON's revolutionary ALS-600 is amateur radio's *only* linear amplifier that uses four rugged TMOS RF power FETs -- gives unequaled no tune solid state performance. **\$1499** includes our *no tune FET Amplifier* and a 120/220 VAC, 50/60 Hz AC power supply for home operation.

• Made in U.S.A.

You get instant bandswitching, no tuning, no warm-up, no fuss! ALS-600 gives 600 Watts PEP Output power and 500 Watts CW with continuous coverage 1.5 to 22 MHz; 10/12 Meters with easy-to-install optional kit, \$29.95 plus shipping. Must present FCC license at time of sale.

SWR Protection prevents amplifier damage if you switch to the wrong band, use the wrong antenna or have a high SWR. Over-power protection enables if output forward power or reflected power exceeds a safe level. Output power is automatically reduced to prevent amplifier damage by controlling ALC to exciter.

The ALS-600 is extremely quiet. A low speed, low volume fan is so quiet you'll hardly know it's there, unlike noisy blowers used in other amplifiers. The ALS-600 is a compact 6x9 1/2 x 12 inches -- takes up less space than your rig! Weighs just 12 1/2 lbs.

An LED illuminated Cross-Needle SWR/Wattmeter lets you read SWR, forward and reflected *peak* power simultaneously. An Operate/Standby switch lets you run "barefoot", but you can instantly switch to full power if you need it.

You get a front-panel ALC control! This *exclusive* AMERITRON feature lets you adjust your output power on the convenient front panel display. You also get front panel Transmit, ALC, and SWR LED indicators. A 12 VDC output jack lets you power low current accessories. Enjoy 600 Watts of no tune Solid State power. Call your favorite dealer for your best price.

But it gets even better than this! Do you want to place even the main ALS-600 amplifier out of the way? Do you want the ALS-600 to change bands automatically when you change bands on your transceiver? You now have these options. A pair of RJ45 remote control interface jacks on the amplifier permits ALS-600 to be controlled either manually by the compact ALS-500RC Remote Control Head, or automatically by the ARI-500 Automatic Band

Switch. The Automatic Band Switch reads band data from your transceiver and automatically changes the ALS-600 bands as you change bands on your transceiver. See more details on page 6.

ALS-600PS Heavy Duty Power Supply

• Massive choke input filter greatly improves voltage regulation and reduces peak AC line current • AMERITRON's *exclusive Multi-Voltage Power Transformer* lets you compensate for stressful high line voltage and performance robbing low line voltage • *Step-Start Inrush Protection™* stops damaging inrush currents and extends the life of your power supply components • Illuminated Cross-Needle Meter monitors voltage and current of 50 VDC line.

• Extremely quiet fan • Very compact 6x9 1/2 x 12 inches -- can be placed conveniently out of the way • Wired for 120 VAC, supplies 50 VDC at 25 Amps to ALS-600 amplifier • Also use on 100-130 VAC and 220-250 VAC, 50/60 Hz • Draws less than 12 Amps at 100 VAC and less than 6 Amps at 230 VAC • Includes prewired cable to plug into ALS-600 amplifier.

New! ARI-500, \$119.95. Amplifier Radio Interface reads band data from your transceiver so you can automatically bandswitch your ALS-600 amplifier. See Page 9.

Switching Power Supply for ALS-600

Works with all ALS-600 amplifiers. **Extremely** lightweight, just 10 lbs. **Superb** regulation, very low radiated noise. **Measures** a compact 9Wx6Hx14 1/2 D inches. Great for portability!

ALS-600SPS

\$699

Suggested Retail



ALS-600 Amp with Switching Power Supply

ALS-600S, \$1599. ALS-600 amplifier with 10 lb.

ALS-600SPS switching power supply combo.

Just don't take it from us . . . here's what "they" say about our solid state base station amplifier:

From QST Magazine, March, 2005

" . . . the amplifier faulted only when it was supposed to. It protected itself from our boneheaded, sleep-deprived band changing maneuvers . . ."

"I found myself not worrying about damaging this amplifier. It seems quite capable of looking out for itself. . . . Kudos to Ameritron."

"I couldn't hear any noise at all from the SPS (switching power supply) on the vertical or quad . . ."

"I came to greatly appreciate the size, weight, reliability and simplicity of this amplifier."

"The ALS-600S makes it possible to pack a transceiver and a 600 Watt amplifier, that together weigh less than 30 pounds."

AMERITRON Inrush Current Protector stops damaging inrush current

Protects your amplifier, tubes and power supply components . . .



ICP-120

or ICP-240

\$79.95

Suggested Retail

When you first turn on your amplifier, a massive inrush current gushes in. House lights flicker as you hear a loud "thump" from your amp. This terrible inrush current stresses all your power supply components to their limits. Your cold tube filament suffers abusive thermal shock.

Eventually, this massive inrush current will damage your amplifier.

Ameritron's Step-Start Inrush Current

Protector™ stops damaging inrush current.

Momentary high-voltage "spikes" in the AC

line can also cause damage to your amp. The

ICP-120/240 has built-in varistors to absorb

these spikes before they can cause damage.

Works with nearly all linear amplifiers.

By starting your linear amplifier through a

ARF-1000 RF Filter reduces harmonics

Use with rigs or amps that are producing unwanted harmonics.

Frequency select switches to one of six different ranges from 1.5 to 30 MHz. Handles 1000 W SSB input power, 600 W CW or 400 W RTTY. SWR is less than 1.3:1 on all ham bands. SO-239 connectors. 5"Wx3"Hx9"D in.



ARF-1000

\$159.95

Suggested Retail

Add-on Electronic Bias for AL-82/1200/1500

EBS-1 pc board reduces heat by reducing quiescent current to low values during periods when exciter output falls below 100 mW. Remote detector board. **EBS-1H, \$49.95**, other amps. 662-323-8211 details.



EBS-1

\$39.95

Suggested Retail

GOP-100 Grid Overload Protection Module - \$39.95

Grid Overload Protection module protects your amp's tube from excessive grid current. Fast-acting electronic circuit rapidly disables the amp if excessive grid current condition occurs. Easy to install in your Ameritron amp. Factory installation available, 662-323-8211 for details.



AMERITRON mobile *no tune* Solid State Amp

500 Watts, Instant bandswitching, no tuning, no warm-up, SWR protected, 1.5-22 MHz... **NEW! ARI-500 Amplifier Radio Interface** reads transceiver band data -- automatically band-switches ALS-500M amp... **NEW! ALS-500RC Remote Head** gives total remote control!



ALS-500M
\$899

Suggested Retail

Just turn on and operate -- no warm-up, no tuning, instant bandswitching. Compact. Ameritron's ALS-500M solid state mobile amp gives you 500 Watts PEP SSB or 400 Watts CW output! Covers 1.5-22 MHz, (10/12 Meters with MOD-10M, \$29.95 kit, requires FCC license). Mail with order to Ameritron.

Virtually indestructible! Load Fault Protection eliminates amplifier damage due to operator error, antenna hitting tree branches, 18-wheeler passing by. Thermal Overload Protection disables/bypasses amp if temperature is excessively high. Auto resets.

Typically 60-70 watts in gives full output. ON/OFF switch

bypasses amplifier for "barefoot" operation. Extremely quiet fan comes on as needed. Excellent harmonic suppression, push-pull output, DC current meter. 13.8 VDC/80 Amps. Super-compact 3 1/2x9x15 inches. 7 pounds.

ALS-500M, \$899, 500 Watt mobile amp.

ALS-500MR, \$929, ALS-500M mobile amp **plus** ALS-500RC Remote Head for full manual remote control.

ARF-500K, \$179.95, Remote kit for older ALS-500M mobile amps with serial # below 13049. Includes filter/relay board for ALS-500M, ALS-500RC Remote Head, cables, hardware, instructions.

ARF-500K2, \$289.95. Includes ARF-500K Remote kit for older ALS-500Ms **plus** ARI-500 Amplifier Radio Interface below.

New ARI-500, \$119.95, Amplifier Radio Interface reads band data from your transceiver so you can automatically bandswitch your ALS-500M amplifier. See below left.

Choose ARI-500 for fully automatic bandswitching or ALS-500RC for manual remote control.



New ALS-500RC, \$49.95, Remote Head lets you place your ALS-500M or ALS-600 amplifier out-of-the-way and gives you full manual remote control. Select desired band, turn on/standby and monitor current draw on its DC Current Meter. Power, transmit and overload LEDs. RJ-45 cables plug into Amplifier/Remote Head. Works with serial numbers above 13049 (below 13049 requires the ARF-500K, above). Compact 4Wx2 3/4x1D inches.

Let your rig auto bandswitch your Solid-State Ameritron Amps

The Ameritron ARI-500 Amplifier Radio Interface reads band data from your Icom, Yaesu, Kenwood* or Alinco transceiver so they can remotely and automatically bandswitch your Ameritron Solid State Amps (ALS-500M, ALS-600, ALS-1300).

Now you can mount your amp out-of-the-way in your trunk, at the back of your motorhome or elsewhere and operate with just this tiny box at your station control.

Works with serial numbers above 13049 (below 13049 requires the ARF-500K, see above). You can add the ALS-500RC for



manual bandswitching and data monitoring, etc, see page A-6 for description.

*Not compatible with Kenwood TS-480, 2000 rigs.

ARI-500
\$119.95
Suggested Retail

ARI-500 Cables . . . \$24.95

Model #	Transceiver
RJ-13D	Icom 706, 7000, 718
RJ-7DI	Icom ACC2, 7 pin
RJ-DB97DK	TS-2000, 570, 870
RJ-DB98MK	Kenwood and compatibles
RJ-DB9Y	FT-847 CAT
RJ-8MY	FT-847 Tuner Port, 450/950
RJ-8MY2	FT-857D, 897D, 10000
RJ-8DY	Yaesu with 8 pin Data

Base Operation Power Supply for your ALS-500M Amplifier



SPS-75MV
\$259.95
Suggested Retail

Has Anderson PowerPoles™!

Ameritron's heavy duty 75 Amp switching power supply is excellent for powering your HF mobile amplifier or your HF and VHF/UHF rigs and accessories.

It's great for Ameritron's ALS-500M Solid State Mobile HF Amplifier and others with a power requirement of up to 75 Amps.

SPS-75MV delivers 75 amps maximum and 70 amps continuously without even flexing its muscles. Plugs into any 110 VAC wall outlet.

It's highly regulated with load regulation better than 1%. Ripple voltage is less than 12 mV peak-to-peak at rated load.

No RF hash! Ameritron's exclusive HashSQUASH™ Filtering

AMERITRON's Exclusive HashSQUASH™

Filtering System eliminates RF hash that plagues other manufacturer's switching power supplies.

System eliminates RF hash that plagues other manufacturer's switching power supplies.

Fully protected -- your SPS-75MV has Short-Circuit, Over-load and Over-Temperature protection systems. Also has an auto restart after a fault. Has power on and Fault LED indicators.

You get front panel adjustable voltage from 4.0 to 16 VDC. Front-panel meters with backlight let you monitor voltage and current simultaneously.

Attractive front panel features several options for connecting your gear: One pair of 5-way binding posts, two pair of Anderson PowerPoles™ one pair of high-current 5-way binding posts, a cigarette socket for mobile accessories, and two pairs of quick connects.

Whisper quiet fan speed increases as load current increases -- keeps components cool and protected. Battery charging feature.

Measures 9 3/4x5 1/2x9 1/2 inches. Weighs just 10.5 lbs., so it's still light enough to carry on DXpeditions, camping trips and vacations. No more hauling around big, bulky conventional power supplies that can give you a hernia!

AMERITRON Amplifier-to-Transceiver Interface

Protects expensive radio from damage by keying line transients and steady state current and voltages

ARB-704 will work with almost any transceiver without the need of the plug-and-play pre-wired cable.

The ARB-704 advanced interface is compatible with all common radios and amplifiers even though radios and amplifiers do not have standardized voltages, accessory plugs, or wiring. It's designed to work with any amplifier/radio combination.

The input is designed to be compatible with any transmitter or transceiver, and the output is compatible with AC control lines or DC positive or negative amplifier control lines having up to 200 Volts peak open circuit voltage and 300 mA of operating current.

Why you need the ARB-704

Amplifiers can damage radios if the amplifier has too much relay control voltage, voltage spikes, or excessive current on the relay control line. Such damage often appears as "stuck" or "sticky" transmit relays in exciters or shorted transistors on transmit control lines. In most cases where the radio is damaged, the system transmits normally but the external amplifier stays locked in a "transmit" mode. This prevents receive signals from



ARB-704
INTERFACE BUFFER

\$59⁹⁵

ARB-704I2
for IC-706 series radios
(Includes PNP-13D)

coming through the amplifier with normal levels whenever the amplifier is in the "ON" or "OPERATE" position.

The ARB-704 has many electrical advantages over conventional relay buffer systems. The ARB-704 has no moving parts, switches almost instantaneously. It is noiseless, has very long life, and will not develop dirty contacts. It operates with negative, AC, or positive amplifier relay control lines.

It works with any relay voltage (AC, positive, or negative) up to 200 peak volts and any relay current up to 300 mA. The ARB-704 is fully compatible with conventional amplifier relay systems. It is especially suited for buffering vacuum relay QSK amplifiers, since the ARB-704 does not affect attack or release times in a deleterious manner.

The ARB-704 operates with trans-

mitters or transceivers that pull amplifier control lines to ground, or output a wide range of positive or negative control voltages. The transmitter only switches currents under 0.35 milliamperes and very low voltages when using the ARB-704. Measures a super compact 4 1/4 W x 1 1/4 H x 2 3/4 D inches.

PLUG-AND-PLAY CABLES

Cables are \$17.95 each.

ARB-704 is supplied with the following: 1. One power connector cord and plug with red wire (+12 Volts) and black wire (negative and ground).

2. Three phono (RCA) cord with connectors on each end. These cables are for relay, ALC and amplifier control lines.

Model#	Transceivers
PNP-8D	FT-1000/2000, (MP), 767GX, 920, 990, 747GX
PNP-8M	FT-890, 840, 817, 857, 897, FT450, 950, 900
PNP-35	FT-100, (D)
PNP-5M	FT-847
PNP-7D	TS-440, 690, 450, 180, 140, 950, 130, 870, 2000, 50, 120, 530, 430, 830, 850, 940, 570
PNP-13D	All models of the IC-706 series, 718, 7000
PNP-7DK	TS-930 (serial numbers lower than 309)
PNP-8MK	TS-480
PNP-5D	FT-980
PNP-8DI	ICOM ACC JACK
PNP-7DI	ICOM ACC 2 JACK

A plug-and-play cable is not needed if your radio is not listed.

AMERITRON QSK-5 High Power Transmit/Receive Switch

This self-contained AMERITRON QSK-5 Transmit/Receive Switch uses electronic PIN diode switching to give you lightning fast QSK operation from nearly any HF linear amplifier.

It lets you use your linear amplifier for high power QSK CW, for packet, AMTOR and any mode requiring extremely fast switching between transmit and receive.

Installation is simple. Just plug in a few cables to start enjoying QSK -- there's no complicated internal wiring.

The world's most advanced QSK switch has new technology that'll make your amplifier last longer and prevent TVI, RFI and key clicks.

AMERITRON's exclusive AmpSaver™ (available in QSK-5PC) completely turns off your power amplifier tube current between dots, dashes and

QSK-5
\$399⁹⁵
Suggested Retail

words!

This new QSK technology gets rid of unwanted power dissipation that causes damaging heat. Your expensive amplifier runs cooler so every component in your amplifier lasts longer.

Our exclusive SureSwitch™ handshake prevents "hot switching" RF power. Prevents TVI, RFI, key clicks and possible damage to your amp.

The QSK-5 is six times faster than a typical mechanical vacuum relay "QSK" switch that can just barely keep up with QSK transceivers. As radios get faster and better, mechanical switching just won't be able to switch fast enough. Unlike



noisy mechanical vacuum relays, the QSK-5 is extremely quiet -- there's no relay chatter keeping you from enjoying QSK.

You won't have to pay for QSK again if you buy another amplifier. Unplug the QSK-5 and use it with your new amp.

Handles 2500 Watts PEP and 2000 Watts CW in normal amateur service when SWR is below 1.5:1. Handles 750 Watts on continuous carrier modes such as RTTY, SSTV, and FM. Optional cooling fan (CF-5, \$39.95) allows sustained operation at 1500 Watts in any mode. Use with positive voltage keying up to +25 Volts. 6Dx4Hx9 1/2W".

Internal QSK Available for the following AMERITRON models: AL-80B, AL-1500, AL-1200, AL-82, AL-800, and AL-800H.

Contact Ameritron for installation details on the QSK-5PC internal switch.

Tune-up your linear amplifier perfectly without overheating, tube damage, power supply stress, arc over...



ATP-100

\$69⁹⁵

Suggested Retail

The ATP-100 Amplifier Saver™ lets you safely tune up your linear

amp-lifier perfectly for full power output and best linearity.

It protects your expensive amplifier from overheating, tube damage, power supply stress and arc-over during tune-up. It prevents premature failure and costly component replacements.

AMERITRON's innovative pulse tuning technology lets you tune your amplifier at full peak output power for best linearity. It keeps average power to a low safe level to prevent overheating and power supply stress.

"Why can't I just tune up at low power to reduce overheating and component stress?" you ask yourself. Well you can... but if you don't re-tune at high power (which causes overheating) you can create severe splatter and abuse your tube grids because of excessive grid current.

If your linear uses tubes that are easily damaged by normal tune-up, the ATP-100 could extend tube life.

"Sniff-out" RFI or TVI caused by rusty guy wires, rain gutters, clotheslines and others by generating full peak power without amplifier damage. Also use to evaluate wattmeters and QSK systems.

Set and forget internal trimpots let you tailor duty cycle and pulse rate precisely for your rig and amplifier. Plugs into your rig's CW key jack. Simply press Pulse Tune button and tune your amplifier normally for maximum power output.

Locking Pulse Tune and momentary Carrier Tune buttons. Fully shielded all metal case. 3 1/4 W x 1 1/4 H x 4 D inches. Uses 9 Volt battery.

Order ATP-100, \$69.95.

Deluxe Amplifier Saver



... with External Duty Cycle and Pulse Rate Controls

ATP-102, \$79.95. Deluxe version has Duty Cycle and Pulse Rate Controls on front panel for easy performance testing of wattmeters, QSK systems and other equipment.

AMERITRON HF Mobile "Screwdriver" Antenna

1.2 kW... 3.5-30 MHz continuous ...1.5:1 VSWR...more!



AMERITRON's SDA-100 is the best built, best looking, best performing HF mobile screwdriver antenna in the world! Properly installed on your vehicle this antenna covers 80-10 Meters with a 6 foot whip. Remove the whip for 40-6 Meters.

What makes our antennas stand above all the rest is that our CNC machined components are from aircraft aluminum or stainless steel and blueprinted, meaning you can take the antennas apart and mix them up, then reassemble and they work the same.

Our fiberglass coil form is approximately 2 inches in diameter. Other antenna builders know fiberglass is better but they choose not to use it because of the expense and difficulty in machining. We use 14 gauge wire for high power capability, wound at eight turns an inch for maximum efficiency. We machine groove our coils so they will not loosen up or jam -- they won't wear out, for years of trouble free service!

New Lexan cover is super durable and protects your Ameritron screwdriver for years of trouble-free service.

The decoupler we use is CNC machined for tight tolerances with custom finger-stock designed to contact 3 turns of coil all the time with over 25 pounds of combined contact pressure. With this design you can run up to 1.2 kilowatts PEP, trouble free. It's so superior to anything else on the market that we put our outstanding AMERITRON warranty behind it.

We use a new heavy duty Pittman commercial 12 volt gear motor, which is very durable and quiet while receive tuning. This motor is super heavy duty for years of trouble-free service. Antennas come with sensors already installed so if you add an auto controller, everything is ready.

The AMERITRON SDA-100 includes:

Up/Down switch; 5 feet of motor DC cable with detachable weather sealed connector; decoupling toroid matching coils.

SDA-100 comes in a handsome black, using Dupont Basecoat/Clearcoat system.

Optional accessories:

SDM-100, \$99.95. Stainless steel flange mount base bracket, with multiple pre-punched holes. The SDA-100 mounting rod is a 1-in. pipe thread 14-inches long. Ship Code B.

SWP-100, \$24.95. 6-ft stainless steel whip.

SMC-100, \$4.95. Shunt matching coil with solder lugs. For use at base of mobile/screwdriver antennas with high SWR.

Combination Prices

SDA-110, \$539.95. Combination SDA-100 mobile screwdriver antenna, SDC-100B auto-controller, and SWP-100 whip.

SDA-112, \$569.95. Combination of SDA-100, SDC-102 and SWP-100.

SDA-113, \$589.95. Combination of SDA-100 screwdriver antenna, SDC-103 auto-controller, and SWP-100 whip.

Programmable 10-Memory Screwdriver Controller

The SDC-102 lets you save 10 screwdriver antenna positions in memory. With a push of a button, you can quickly return to any saved position.

Up/Down buttons let you manually move the antenna to any desired position. A 4-digit turns counter with bright *see-in-the-sun* LEDs gives you precise antenna position.

The antenna always moves to its desired position from the bottom, insuring that the motor is always loaded the same.

Ameritron's *AutoPark™* feature automatically bottoms your antenna for parking in your garage and *resets* and *calibrates* your counter each time to eliminate antenna slip-page and turns count errors.

Ameritron's *Dead-OnSTOP™* feature eliminates overshoot for dead-on stops.

Ameritron's *StallProtector™* feature shuts off stalled motors to prevent motor burnout.

Motor current can be monitored for signs of trouble and to determine stall current.

Motor direction can be reversed so the UP button is always up. Compatible with single/dual magnetic sensors. 3 1/2" W x 3 1/4" H x 1 1/4" D in.

Automatic Screwdriver Antenna Controller for Icom Transceivers

Ameritron's SDC-103 is perfect for your Icom radio equipped with a CI-V interface. Connect the controller to your Icom rig and the SDC-103 receives the frequency data and will automatically tune your screwdriver antenna. Has all features of the SDC-102. 3 1/2" W x 3 1/4" H x 1 1/4" D inches.

SRS-100, \$29.95. Magnetic sensor kit for High Sierra to use SDC-100/102/103. Not compatible with Sidekick™.

SRS-1001, \$9.95. Magnetic sensor kit for Hi-Q antennas to use SDC-100/102/103.



SDC-102
\$129.95
Ship Code A



SDC-103
\$149.95
Ship Code A

Ameritron Mobile Installation Accessories

ALS-500M DC Power Wire Harness

10-22500, \$69.95. Get an extra DC power harness for your ALS-500M amplifier. Saves you from the hassle of moving your amp cable assembly. Fully assembled 8 foot cable, fuse holders and fuses included.

In-Line Fuse Holder/Distribution Block

MIA-1, \$6.95. AGU in-line fuse holder; heavy duty, waterproof, handles to 80A, 4-10 gauge wire, built-in mounting bracket.

MIA-2, \$14.95.

AGU in-line fused power distribution block; 1 input for 4 gauge wire, 2 outputs for up to 8-gauge wire, plastic cover with mounting ears.

Remote Power ON/OFF for Amplifier

MIA-3, \$59.95. 12 VDC Bosch relay. Turns amplifier high current DC supply line ON/OFF remotely with vehicle ignition switch. SPST, heavy duty dual contacts. Handles 75 Amps.

Battery Post Break-out Block

MIA-4, \$14.95. Don't damage your amp because of poor battery connections. Replace old clamps with this gold metal battery break-out block. Has 4 AWG terminal for your auto battery and two 8 AWG connections for your amplifier.

Braided Ground Strips

MIA-5, \$9.95. Makes solid grounding for your mobile radio or screwdriver antenna installation. Made from ultra-fine tinned copper braid. Extremely flexible. 7/8-inch width, 13" long. 3/8" holes on each end.

Ameritron Digital Screwdriver Controller

4-digit super bright LEDs tell you exactly where your antenna is positioned! Re-tune *exactly* -- fast, no guessing. Digital count range -999 to +999. On/ off/ reset switch for easy calibration. 4Wx1 1/2" H x 2D". Use 13.8VDC.

SRS-100, \$29.95. Magnetic sensor kit for High Sierra. Not compatible with Sidekick™.

SRS-1001, \$9.95. Magnetic sensor kit for Hi-Q Antennas.



SDC-100B
\$109.95
Ship Code A

High Current Amplifier Power Cable

Highly flexible, 105 degrees celsius, 600 Volts, tinned copper PVC cable. PVC jacket is resistant to oil, fuel, acids, grease and abrasion. Intended for mobile installation.

Part#	Red	Part#	Blk	Cost/Ft	Description
871-1022		871-1000		.49	10AWG, 19/23, .176" OD
871-0822		871-0800		\$1.32	8AWG, 19/21, .217" OD
871-0622		871-0600		\$1.84	6AWG, 49/22.5, .330" OD
871-0422		871-0400		\$2.36	4AWG, 70/22.5, .380" OD

AMERITRON . . . the World's High Power Leader!

AL-811/AL-811H Specifications:

Input:
Circuit type: Pi-network, slug tuned coils.
Maximum VSWR at resonance: 1.3:1
Minimum 2:1 VSWR bandwidth: 15%. **Max. drive power permissible:** AL-811: 80 Watts; AL-811H: 100 Watts. **Typical drive rated output:** AL-811: 60 Watts; AL-811H: 75 Watts
Output:
Typical SSB PEP voice operation: AL-811: 600 Watts; AL-811H: 800 Watts.
Typical CW operation: AL-811: 400 Watts; AL-811H: 600 Watts. **1/2 hour PEP two tone test:** AL-811: 500 Watts; AL-811H: 650 Watts. **1/2 hour continuous carrier (RTTY):** AL-811: 300 Watts input; AL-811H: 400 Watts input.
Power Supply:
Circuit type: full wave bridge. **No load voltage:** 1700 Volts. **Full load voltage:** 1500 Volts. **Full load current:** AL-811: 550 mA; AL-811H: 650 mA.
Regulation: 10%.
Maximum draw at rated output: AL-811: 8 A; AL-811H: 10A. **AC Input:** 120 V, 50/60 Hz (AL-811/H) 240 V, 50/60 Hz (AL-811X/AL-811HX).
Tubes:
Type: (AL-811: 3) (AL-811H: 4) 811A vertically mounted.
Continuous dissipation: 65 Watts per tube. **Warm-up time:** 5 seconds
Metering:
Multimeter: reads HV and plate current. **Grid Meter:** Reads PA grid current
ALC:
Negative going, 0-20 V, adjustable, phono jack
***Efficiency SSB (envelope crest):** greater than 70%
MARS/WARC:
Yes, set to the nearest band.
Connectors:
Relay: engages amplifier when grounded. +12 VDC open circuit and supplies 100 mA when grounded. A built-in back-pulse cancelling diode protects the exciter.
RF input: SO-239, 50 Ohm input.
RF Out: 50 Ohms with full power into any SWR below 3:1.
Power: NEMA 5-15P, 120 Volts.
Dimensions: 15 1/2"Dx13 3/4"Wx8 1/4"H inches.
Operating Weight: 32 pounds.
Shipping Weight: 41 pounds.
Frequency Coverage: Domestic model: 160, 80, 40, 30, 20, 17, 15 Meters. 10/12 Meters with modification. Must present FCC license at time of sale to obtain modification details.
Third Order IMD at Rated Output: -33 dB.

AL-80B Specifications:

Input:
Circuit type: Pi-network, slug tuned coils.
Maximum VSWR at resonance: 1.3:1 or less.
Minimum 2:1 VSWR bandwidth: 20% of center frequency. **Max. drive power permissible:** 100 Watts. **Typical drive for full power output:** 85 W.
Output:
Typical SSB PEP voice operation: 1000 Watts.
Typical CW operation: 800 Watts. **1/2 hour PEP two tone test:** 800 Watts. **1/2 hour continuous carrier (RTTY):** 500 Watts.
Power Supply:
Circuit type: Full wave voltage doubler. **No load voltage:** 3000 Volts. **Full load voltage:** 2700 Volts. **Full load current:** 450 Amp. **Regulation:** 10%.
Transformer: 26 pounds.
Capacitors: 33 uFd total, computer grade.
Maximum draw at rated output: 12 Amps. **AC Input:** 120 V, 50/60 Hz.
Tubes:
Type: Classic 3-500.
Continuous dissipation: 500 Watts. **Warm-up time:** 5 seconds.
Metering:
Multimeter: reads HV, forward power, reflected power, SWR, ALC, ALC set. **Current Meter:** Reads plate and grid current.
ALC:
True ALC 0-10V negative, front panel adjustable.
Efficiency CW: Typically 66% or greater.
***Efficiency SSB (envelope crest):** Approximately 66% or greater.
MARS/WARC:
Yes, set to the nearest band.
Connectors:
Keying: Supplies 100 mA when grounded, built-in back-pulse cancelling diode, protects the exciter. 12 VDC open circuit.
RF input: SO-239, 50 Ohm input.
RF Out: 50 Ohms with full power into any SWR below 3:1.
Power: NEMA 5-15P, 120 Volts.
Dimensions: 15 1/2"Dx14 1/2"Wx8 3/4"H inches.
Operating Weight: 48 pounds.
Shipping Weight: Unit, 54 lbs.; Tube, 3 lbs.
Frequency Coverage: Domestic model: 160, 80, 40, 30, 20, 17, 15 Meters. 10/12 Meters with modification. Must present FCC license at time of sale to obtain modification details.
Third Order IMD at Rated Output: -35 dB.

AL-572 Specifications:

Input:
Circuit type: Pi-network, slug tuned coils.
Maximum VSWR at resonance: 1.3:1 or less.
Minimum 2:1 VSWR bandwidth: 20% of center frequency. **Max. drive power permissible:** 100 Watts.
Typical drive for full power output: 70 Watts.
Output:
Typical SSB PEP voice operation: 1300 Watts nominal (7 MHz).
Typical CW operation: 900 Watts nominal.
1/2 hour PEP two tone test: 1000 Watts.
1/2 hour continuous carrier (RTTY): 650 Watts.
Power Supply:
Circuit type: Full wave voltage doubler. **No load voltage:** 2800 Volts. **Full load voltage:** 2500 Volts. **Full load current:** .7 Amp. **Regulation:** 14% or less.
Transformer: 21 pounds.
Capacitors: 33 mFd total, computer grade.
Maximum draw at rated output: 16 Amps. **AC Input:** 120 V, 50/60 Hz.
Tubes: Type: 572B (x4).
Continuous dissipation: 640 Watts.
Warm-up time: 5 seconds.
Metering:
Multimeter: reads HV, forward power, reflected power, SWR, ALC, ALC set. **Current Meter:** Reads plate and grid current.
ALC:
True ALC 0-10V negative, front panel adjustable.
Efficiency CW: Typically 60% or greater.
***Efficiency SSB (envelope crest):** Typically 60% or greater.
MARS/WARC:
Yes, set to the nearest band.
Connectors:
Keying: Supplies 100 mA when grounded, built-in back-pulse cancelling diode, protects the exciter. 12 VDC open circuit.
RF input: SO-239, 50 Ohm input.
RF Out: 50 Ohms with full power into any SWR below 3:1.
Power: NEMA 5-15P, 120 Volts.
Dimensions: 15 1/2"Dx14 1/2"Wx8 3/4"H inches.
Operating Weight: 40 pounds.
Shipping Weight: 48 lbs.
Frequency Coverage: Domestic model: 160, 80, 40, 30, 20, 17, 15 Meters. 10/12 Meters with modification. Must present FCC license at time of sale to obtain details.
Third Order IMD at Rated Output: -34 dB (below PEP rated output).

AL-800/AL-800H Specifications:

Input:
Circuit type: Pi-network, resistor attenuated/slug tuned coils. **Maximum VSWR at resonance:** 1.3:1 or less. **Minimum 2:1 VSWR bandwidth:** within +20% or -40% of selected band/ within 20% of center frequency.
Max. drive power permissible: 100 Watts.
Typical drive for full power output: 70/55 Watts.
Output: Circuit type Pi/Pi-network output.
Typical SSB PEP voice operation: 1250/1500+W
Typical CW continuous operation: 1000/1500 W.
1/2 hour PEP two tone test: 1000/1500 Watts.
1/2 hour continuous carrier (RTTY): 750/1000 W.
Power Supply: Circuit type: Full wave voltage doubler. **No load voltage:** 2600 Volts. **Full load voltage:** 2300/2250 V. **Full load current:** 1/1.2 A. **Regulation:** 12% less/15%.
Transformer: 32 lbs grain oriented EI lamination.
Capacitors: 78/63 uFd total, high current computer grade.
Maximum draw at rated output: 12/13A@240 VAC. Typical line current at 1500 Watt PEP output. 9A at 240 VAC. Power line current in standby: .5 A at 240 VAC. **AC Input:** 120V, 50/60 Hz. **Tubes:** Eimac® 3CX800A7.
Continuous dissipation: 800W per tube, 1600W total. **Warm-up time:** 180 seconds. **Estimated life:** 6,000-8,000 hours ICAS.
Metering: **Multimeter:** reads Peak forward power, Peak reflected power, SWR, ALC threshold output voltage, and high voltage.
Current Meter: Reads plate and grid current.
ALC: Negative going, 0-10 V, phono jack output, front panel adjustments.
Efficiency CW: Approximately 65-66% or greater.
Eff. SSB (envelope crest): Approx. 66% or greater.
MARS/WARC: Yes, set to the nearest band.
Connectors:
Keying: Requires contact closure or sink of +12 VDC at 100 mA, back pulse protected, phono jack.
RF input: SO-239, 50 Ohm input.
RF Out: 50 Ohms with full power into any SWR below 3:1.
Power: NEMA 5-15P, 120/240 Volts.
Dimensions: 17 1/4"Dx14 1/2"Wx8 3/4"H in.
Operating Weight: 51/52 lbs.
Shipping Weight: Unit, 59/60 lbs.; Tubes, 3/5 lbs.
Frequency Coverage: Domestic model: 160, 80, 40, 30, 20, 17, 15 Meters. 10/12 Meters with modification. Must present FCC license.
Third Order IMD at Rated Output: -35 dB.

AL-82 Specifications:

Input:
Circuit type: Pi-network, slug tuned coils. **Maximum VSWR at resonance:** 1.2:1
Minimum 2:1 VSWR bandwidth: 20%. **Max. drive power permissible:** 130 Watts. **Typical drive rated output:** 100 Watts
Output:
Typical SSB PEP voice operation: 1500 Watts. **Typical CW continuous operation:** 1500 Watts. **30 second PEP two tone test:** 1800 Watts plus. **1/2 hour PEP two-tone test:** 1800 Watts.
Power Supply:
Circuit type: full wave bridge, capacitor input. **No load voltage:** 3600 Volts.
Full load voltage: 3300 Volts.
Full load current: .8 Amp. **Regulation:** 10% or better. **Transformer:** 32 lb HypersilR, capacitors: 26 uFd total, computer grade.
Maximum draw at rated output: 13 Amps.
AC Input: 240 V, 50/60 Hz.
Tubes:
Type: 3-500 Classic (2).
Continuous dissipation: 1000 Watts.
Warm-up time: 5 seconds.
Metering:
Multimeter: Plate current, plate voltage, drive/ALC, power output (PEP Watts).
Grid Meter: Reads PA grid current
ALC:
Negative going, 0-20 V, phono jack
Efficiency CW: 65% typical.
***Efficiency SSB (envelope crest):** 62% typical.
MARS/WARC:
Yes, set to the nearest band.
Connectors:
Keying: engages amplifier when grounded. +12 VDC open circuit and supplies 100 mA when grounded. A built-in back-pulse cancelling diode protects the exciter.
RF input: SO-239, 50 Ohm input.
Power: NEMA 6-15P, 240 Volts.
Dimensions: 18 1/2"Dx17Wx10H inches.
Operating Weight: 76 pounds.
Shipping Weight: Unit, 50 lbs.; Tubes, 6 lbs.; Transformer, 35 lbs.
Frequency Coverage: Domestic model: 160, 80, 40, 30, 20, 17, 15 Meters. 10/12 Meters with modification. Must present FCC license at time of sale to obtain modification details.
Third Order IMD at Rated Output: -34 dB at 1500 Watts Output.

* Exact performance measurements may vary due to the accuracy of test equipment and the measurement methods used. (Prices and specifications subject to change without notice or obligation).

AL-1200 Specifications:	AL-1500 Specifications:	ALS-500M Specifications:	ALS-600 Specifications:	ALS-1300 Specifications:
Input: Circuit type: Pi-network, slug tuned coils. Maximum VSWR at resonance: 1.2:1 or less. Minimum 2:1 VSWR bandwidth: 20% of center frequency. Max. drive power permissible: 130 Watts. Typical drive for full power output: 130 W. Output: Circuit type: Pi-L. 1/2 hour PEP two tone test: 1800 Watts. 30 second PEP two tone test: 1800 Watts plus. Power Supply: Circuit type: Full wave bridge, capacitor input. No load voltage: 3600 Volts. Full load voltage: 3300 Volts. Full load current: .8 Amp. Regulation: 10% or better. Transformer: 32 lb. <i>Hypersil</i> ®. Capacitors: 26 uFd total, computer grade. Maximum draw at rated output: 13 Amps. AC Input: 240 V, 50/60 Hz. Tubes: Type: <i>Eimac</i> ® 3CX1200Z7. Continuous dissipation: 1200 Watts. Warm-up time: 5 sec. Metering: Multimeter: Reads plate current, plate voltage, drive/ALC, power output (PEP Watts). Grid Meter: Reads grid current. ALC: Negative going, 0-20 Volts, adjustable, phono jack. Efficiency CW: 65%. *Efficiency SSB (envelope crest): 62%. MARS/WARC: Yes, set to the nearest band. Connectors: Keying: Engages amplifier when grounded, +12 VDC open circuit and supplies 100 mA when grounded, built-in back-pulse cancelling diode protects the exciter. RF input: SO-239, 50 Ohm input. Power: NEMA 5-15P, 240 Volts. Dimensions: 18"xDx17Wx10H in. Operating Weight: 77 pounds. Shipping Weight: Unit, 50 lb., Tube, 5 lb., Transformer 35 lb. Frequency Coverage: Domestic model: 160, 80, 40, 30, 20, 17, 15 Meters. 10/12 Meters with modification. Must present FCC license at time of sale to obtain details. Third Order IMD at Rated Output: -34 dB at 1500 Watts output.	Input: Circuit type: Pi-network, slug tuned coils. Maximum VSWR at resonance: 1.3:1 or less. Minimum 2:1 VSWR bandwidth: 20% of center frequency. Max. drive power permissible: 100 Watts. Typical drive for full power output: 65 Watts. Output: Circuit type: Pi-L. 1/2 hour continuous carrier: 1500 Watts. 30 second continuous carrier: 2500 Watts plus. 1/2 hour PEP two tone test: 2500 Watts plus. 30 second PEP two tone test: 2500 Watts plus. Power Supply: Circuit type: Full wave bridge, capacitor input. No load voltage: 3600 Volts. Full load voltage: 3300 Volts. Full load current: 1 Amp. Regulation: 10% typical. Transformer: 32 lb. <i>Hypersil</i> ®. Capacitors: 26 uFd total, computer grade. Maximum draw at rated output: 15 Amps. AC Input: 240 V, 50/60 Hz. Tubes: Type: <i>Eimac</i> ® 3CX1500/8877. Continuous dissipation: 1500 Watts. Warm-up time: 180 sec. Metering: Multimeter: Reads plate current, plate voltage, drive/ALC, power output (PEP Watts). Grid Meter: Reads grid current. ALC: Negative going, 0-20 Volts, adjustable, phono jack. Efficiency CW: 65%. *Efficiency SSB (envelope crest): 62%. MARS/WARC: Yes, set to the nearest amateur band. Connectors: Keying: Engages amplifier when grounded, +12 VDC. 100 mA when grounded, built-in back-pulse cancelling diode protects the exciter. RF input: SO-239, 50 Ohm input. Power: NEMA 6-15P, 240 Volts. Dimensions: 18"xDx17Wx10H in. Operating Weight: 77 pounds. Shipping Weight: Unit, 50 lb., Tube, 3 lb., Transformer 35 lb. Frequency Coverage: Domestic model: 160, 80, 40, 30, 20, 17, 15 Meters. 10/12 Meters with modification. Must present FCC license at time of sale to obtain details. Third Order IMD at Rated Output: -36 dB.	Frequency Coverage: (US) 1.5 to 22 MHz continuous; (Export) 1.5-30 MHz continuous. Input: Circuit type: Broadband, resistor swamped. Maximum VSWR at resonance: 1.5:1. Bandwidth: Broadband. Maximum drive power permissible: 100 Watts. Typical drive for rated output: 60 Watts. Output: Circuit: Broadband, low pass. Typical SSB PEP voice operation: 500 Watts PEP. Typical CW operation: 400 W. Power requirement for amplifier: 14-16 VDC, 80A (peak). Output devices: Transistor, (4) 2SC2879. Metering: Current meter, 0-100 A. ALC: None. Efficiency CW: 40%. Efficiency SSB: (envelope crest) 45%. MARS/WARC: Yes, continuous coverage. Keying: Relay closure or sinking to ground of +12 VDC at 100 mA, RCA phono jack. Power Supply connector: Beau multi-contact male chassis mount. Power Supply Cable: 8 foot pre-wired with Beau connector on one end; other end with 5/8 inch ring lugs, 10 gauge wire (x2), in line fuse holders, fuses included. RF Connectors: SO-239 for input and output. Dimensions: 15"xDx8"Wx3"H in. Operating Weight: 7.5 lbs. Shipping Weight: 12 lbs. Third Order IMD at rated Output: -35 dB PEP or better.	Frequency Coverage: (US) 1.5 to 22 MHz continuous; (Export) 1.5-30 MHz continuous. Input: Circuit type: Broadband, resistor swamped. Maximum VSWR at resonance: 1.5:1. Bandwidth: Broadband. Maximum drive power permissible: 100 Watts. Typical drive for rated output: 100 Watts. Output: Circuit: Broadband, low pass. Typical SSB PEP voice operation: 600 Watts PEP. Typical CW operation: 500 Watts. Power requirement for amplifier: 50 VDC, 25 Amps, +/-14 VDC, 1 Amp. Output devices: Power MOSFET (4) MRF-150. Metering: Amplifier-Cross-needle meter for VSWR, FWD, reflected true peak indicating wattmeter. ALC: Negative going 12 VDC, adjustable, RCA phono jack. Efficiency CW: 50%. Efficiency SSB: (envelope crest) 55%. MARS/WARC: Yes, continuous coverage. Keying: Relay closure or sinking to ground of +12 VDC at 100 mA, RCA phono jack. Power Supply connector: Beau multi-contact male chassis mount. RF Connectors: SO-239 for input and output. Dimensions: 12Dx9"Wx7"H inches. Operating Weight: 12.5 lbs. Shipping Weight: 18 lbs. (amp only). Third Order IMD at rated Output: -35 dB PEP or better.	Frequency Coverage: (US) 1.5 to 22 MHz continuous; (Export) 1.5-30 MHz continuous. Input: Circuit type: Broadband, resistor swamped. Maximum VSWR at resonance: 1.5:1. Bandwidth: Broadband. Maximum drive power permissible: 100 Watts. Typical drive for rated output: 100 Watts. Output: Circuit: Broadband, low pass. Typical SSB PEP voice operation: 1200 Watts PEP. Typical CW operation: 1000 Watts. Power requirement for amplifier: 50 VDC, 50 Amps, +/- 14 VDC, 2 Amps. Output devices: Power MOSFET (8) MRF-150. Metering: <i>Two Cross-Needle Meters</i> for VSWR, FWD, REF true peak indicating wattmeter, ALC, high voltage PA1 and PA2. ALC: Negative going 12 VDC, adjustable RCA phono jack. Efficiency CW: 50%. Efficiency SSB: (envelope crest) 55%. MARS/WARC: Yes, continuous coverage. Keying: Relay closure or sinking to ground of +12 VDC at 100 mA, RCA phono jack. Power Supply connector: Beau multi-contact male chassis mount. RF Connectors: SO-239 for input and output. Dimensions: 18Dx10Wx6"H inches. Operating Weight: 22 lbs. Shipping Weight: 27 lbs. Third Order IMD at rated Output: -35 dB PEP or better.
		ALS-600SPS Switching Power Supply Specs: Line Input: 120 VAC/240 VAC. Output: 50 VDC, 25 Amps, +/-14 VDC, 1 A. Metering: Cross-needle for volt/amp. Output Cable: 6 foot prewired cable with Beau multi-contact connector to mate with ALS-600 amplifier. Dimensions: 12Dx9"Wx6H inches. Operating Weight: 9 lbs.* Shipping Weight: 15 lbs.* AC Line Connector: NEMA-5-15P. Note: * Total Shipping weight for ALS-600 Amplifier and ALS-600SPS power supply is 33 lbs., shipped together.	ALS-600PS Power Supply Specifications: Line Input: 120 VAC/240 VAC. Output: 50 VDC, 25 Amps, +/-14 VDC, 1 Amp. Metering: Cross-needle for volt/amp. Output Cable: 6 foot prewired cable with Beau multi-contact connector to mate with ALS-600 amplifier. Dimensions: 12Dx9"Wx6H inches. Operating Weight: 32 lbs.* Shipping Weight: 37 lbs.* AC Line Connector: NEMA-5-15P. Note: * Total Shipping weight for ALS-600 Amplifier and ALS-600PS power supply is 57 lbs., shipped together.	ALS-1300SPS Switching Power Supply Specs: Line Input: 120 VAC@30 Amps 220 VAC@14 Amps Output: 50 VDC, 50 Amps, +/-14 VDC, 2 A. Output Cable: 6 foot prewired cable with Beau multi-contact connector to mate with ALS-1300 amplifier. Dimensions: 9"Dx10Wx6"H inches. Operating Weight: 15 lbs.* Shipping Weight: 20 lbs.* AC Line Connector: NEMA-6-15P. Note: * Total Shipping weight for ALS-1300 Amplifier and ALS-1300SPS power supply is 49 lbs., shipped together.

* Exact performance measurements may vary due to the accuracy of test equipment and the measurement methods used. (Prices and specifications subject to change without notice or obligation).

AMERITRON *True Legal Limit*™ Tuner

Easily handles 1500 Watts continuous carrier even on 160 Meters . . . High-current edge-wound silver plated Roller Inductor . . . Two 500 pf high capacitance tuning capacitors with 6:1 vernier reduction drives . . . 3 core choke balun . . . Six position antenna switch . . . True peak reading Cross-Needle SWR/Wattmeter . . .



- **Handles well over 1.5 kW carrier**
- **Super High Current edge-wound silver plated Roller Inductor**
- **500 pf tuning capacitors with 6:1 vernier reduction drives**
- **3 core choke balun**
- **6 position antenna switch**
- **True peak reading meter with LED Meter Light**

AMERITRON's ATR-30 True Legal Limit™ roller inductor antenna tuner is ham radio's toughest! It'll handle 1500 Watts continuous carrier output on all modes and all HF bands into most antennas -- even on 160 Meters where most antenna tuners fail. It's perfect for Ameritron's most powerful amplifiers where the ATR-30 just loafs. All band coverage lets you operate 1.8-30 MHz including all MARS and WARC bands.

Super High Current Roller Inductor
You'll see

Ameritron's new super high current air core roller inductor. It's edge wound from a thick solid copper strip and silver plated. This produces a large surface area and a massive conductor. It can carry huge circulating RF currents and withstand tremendous heat that'll melt or burn ordinary roller inductors.

A gear driven turns counter and crank knob gives you precise inductance control.

Two 500 pf Tuning Capacitors

Two 500 pf -- the highest of any antenna tuner -- variable transmitting capacitors give you no-arc wide range impedance matching for true high power performance.

6:1 vernier reduction drives make capacitor tuning smooth and easy.

ATR-30
\$599⁹⁵
Suggested Retail

Super Balun, 6 position Antenna Switch

Super heavy duty three core choke balun lets you match virtually any balanced feedline antenna without core saturation.

A 6 position antenna switch lets you select your desired operating antenna.

Read true Peak Power

Ameritron's active electronic true peak reading meter accurately reads forward and reflected power and SWR simultaneously on a super-bright LED lighted Cross-Needle meter.

Roomy Cabinet maintains High-Q

Roomy extra-strong .080 inch thick aluminum cabinet gives highest efficiency and lowest loss. 13 1/4" W x 5 5/8" H x 17 1/2" D inches.

Legendary After-Sale Service

Has Ameritron's superb one year limited warranty with legendary customer service.

ATR-20 Antenna Tuner . . .



ATR-20, \$459.95.

Handles 1.2 kW PEP SSB. Slightly less on 160 Meters. 13 1/2" W x 5 1/2" H x 13 1/4" D inches. Roller inductor T-network, peak reading SWR/Wattmeter with super-bright LED, covers 1.8-30 MHz, 6 position antenna switch, balun. Great for Ameritron's widely popular one kilowatt AL-80B Amplifier!

Precision Single Needle SWR/Wattmeters



AWM-20
\$89⁹⁵
Suggested Retail

These precision, compact meters feature peak and average, forward and reflected power reading and SWR. Each model has different selectable power ranges. A highly visible black and red meter scale on a bright, white background makes it quick and easy to read SWR, Forward or Reflected power at-a-glance. Large 2 5/8 x 1 1/4" lighted meter lamp requires 13.8 VDC or 110 VAC operation. SO-239 connectors with gold-plated center pins, all metal cabinet with rubber feet. Compact 6W x 2 1/2H x 4D inches.

Choose from 4 models.

Model	Price	Frequency	Power	Pwr Ranges
AWM-20	\$89 ⁹⁵	1.6-60 MHz	kW	20/300/3kW
AWM-22	\$89 ⁹⁵	1.8-200 MHz	200 W	5/20/200W
AWM-24	\$119 ⁹⁵	1.8-525 MHz	200 W	5/20/200W

Fan Cooled Dry Dummy Load



ADL-2500
\$219⁹⁵
Suggested Retail

It can dissipate 2500 Watts average power for one minute on, ten minutes off. Handles 300 Watts continuous. SWR is less than 1.25 to 1 below 30 MHz and less than 1.4 from 30 to 60 MHz.

Four 50 Ohm non-inductive super high energy density resistors are used. Each has an incredibly high energy density of 7000 joules per cubic inch per second with a voltage gradient of 10 kV per inch!

Detailed specifications and power curve are permanently silk-screened on the bronzed cabinet for easy reference. Uses 12 VDC. Measures 9 1/2" D x 8 3/4" W x 4H inches. Has SO-239 connectors. 5 pounds.

AMERITRON's 2500 Watt fan cooled dummy load handles any legal limit amplifier, and lets you tune-up your expensive amplifier fast and super easy.

Works with all amplifiers, transceivers and transmitters from DC through 6 Meters.

Legal Limit Oil-filled Dummy Load

AMERITRON's Legal Limit oil filled dummy load lets you run the maximum legal limit of 1500 Watts for a full five minutes.

ADL-1500 has high quality industrial grade transformer oil (no PCB) and heavy duty 50 Ohm resistor.

AMERITRON's Legal Limit oil filled dummy load gives you SWR under 1.2 to 30 MHz and low SWR to 400 MHz.

Durable, sturdy gallon can measures 7 1/2" H x 6 5/8" D inches. Detailed specifications and power curve.

Order ADL-1500 with industrial grade transformer oil. Order ADL-1500X without oil.

ADL-21, \$29.95. 1 Gallon Industrial Grade Transformer oil.



ADL-1500X
\$54⁹⁵
Without Oil.

Suggested Retail
ADL-1500
\$74⁹⁵
Oil included.

AMERITRON RCS-4 Remote Coax Switch

Now covers 6 Meters . . . improved relays . . . Greater Power Handling!



RCS-4
\$159⁹⁵ Ameritron RCS-4 is a remote controlled coax switch that selects Suggested Retail 1 of 4 outputs by supplying all control voltages through the coax.

Elimination of control cables gives you a fast, neat and inexpensive installation -- *only 1 coax line for 4 antennas.*

You get two units -- the switching box (5³/₈Dx7Wx3H inches.) that can be tower, mast or wall mounted and the control console (6¹/₈Dx5¹/₄Wx3³/₈H inches.) that is located at your operating station.

The attractive indoor console has bright LED antenna selector indicators.

A steel enclosure provides 100% shielding to prevent RFI and TVI.

Switching time is 50 milliseconds. *Teflon^(R)* SO-239 connectors provide reliable connections.

The weatherproof switching box uses three

Lightning Protected
model RCS-4L, \$199⁹⁵

heavy duty 16 ampere hermetically sealed relays on a rugged G-10 fiberglass circuit board.

Quality components are used throughout the entire unit to ensure maximum life for the sometimes difficult-to-reach switching box.

RCS-4 operates 120 VAC. RCS-4X for 220/240 VAC. RCS-4 allows safe operation with 14 Volts control voltage.

Frequencies 1.5 - 100 MHz are covered by this excellent station accessory. Handles over 2.5 kW.

Specifications:

4 positions; **Loss** at 30 MHz less than 0.1 dB; **VSWR** is under 1.25:1, 1.5-60 MHz;

Impedance: 50 Ohms; **Power:** >2.5 kW average continuous.

RCS-8V HF to VHF/UHF Remote Coax Switch



RCS-8V
\$169⁹⁵ *Eliminate* a tangle of troublesome coax and have a simple and neat installation -- with just a single feedline.

The RCS-8V consists of two units -- the weatherproof switching box that mounts on your tower or mast and the control unit that's placed at your operating station.

VSWR is less than 1.2 from DC to 250 MHz and less than 0.1 dB loss at 150 MHz -- great for the HF/VHF/UHF operator.

It handles over 5 kW below 30 MHz and 1 kW at 150 MHz. You can ground unused positions or leave them open.

The indoor control unit is all metal to prevent RFI and TVI. It also has LEDs to indicate the antenna you've selected.

A Lexan scratch-proof panel has a markable surface for labeling your antenna positions.

RCS-8V operates from a 120 VAC power

Lightning Protected
model RCS-8VL, \$209⁹⁵

source or RCS-8VX for 220/240 VAC. Use any 6 conductor control line (not supplied) and allows safe operation with 14V control voltage.

RCS-8VN, \$179.95. Same as RCS-8V but has N-type connectors instead of SO-239.

SPECIFICATIONS:

Number of antenna positions: 5.

Loss at 150 MHz: less than 0.1 dB.

VSWR: under 1.2:1 from DC to 250 MHz.

Impedance: 50 Ohms. **Power Capability:**

>5 kW below 30 MHz, 1 kW at 150 MHz.

Power requirements: 12 VDC @ 100 mA.

AC adapter supplied. **Connectors:** *Teflon^(R)*

SO-239 for RCS-8V; "N" for RCS-8VN.

Control Box: 6Dx6¹/₈W x2¹/₄H inches.

Switch Box: 5³/₈Dx7Wx3H inches.

Ameritron's Remote Coax Switch lets you remotely switch up to five separate antennas using one inexpensive small control line (like standard telephone wire) --

RCS-10 Remote Coax Switch with 8 positions



RCS-10
\$179⁹⁵ with just a single coax feedline. The RCS-10 consists of two units -- the weatherproof switching box that mounts on your tower or mast and the control unit that's placed at your operating station.

Outdoor Unit Features:

Inexpensive and simple wiring: selects up to eight antennas using one four conductor telephone type control line.

High Power Capability: The RCS-10 relay box will handle over 5 kW into matched loads below 30 MHz.

SPECIFICATIONS:

Long Relay Life: UL/CSA/VDE approved sealed relays with 16 ampere switching current rating. Tested to withstand 1200V RMS. **Flexible Mounting:** RCS-10 hardware accepts mast sizes from 1 inch to 2 inches. **Reliable Connectors:**

Teflon UHF-style SO-239 females, internal barrier strip for control lines. **Low Voltage:** Requires 10-15 Volts at less than 300 mA.

Number of Antenna Positions: 8.

Frequency Coverage: DC to 100 MHz.

Lightning Protected
model RCS-10L, \$219.95

VSWR: Under 1.25:1 below 30 MHz; Under 1.3:1 below 60 MHz; Under 1.8:1 below 150 MHz.

Impedance: 50 Ohms.

Power Capability: >5 kW into 50 Ohms below 30 MHz.

Power Requirement: RCS-10, 10-15 VDC or 120 VAC with AC adaptor supplied.

RCS-10X, 10-15 VDC or 230 VAC with AC adaptor supplied. **Relay Switch**

Control Line: 4 conductors telephone-type cable, not supplied. **Relay Control Line**

Voltage: 10-15 VDC at less than 300 mA.

Flexible Control Box with External

Interface: Accepts and outputs one-of-eight and outputs three-line BCD data to remote relay unit. **Highly Weather**

Resistant: Sealed relays, stainless hardware, and U-V resistant cover. **Easy-to-**

Read Antenna Indicators: Eight wide-spaced LED's indicate the selected antenna.

Size: Control Box: 6¹/₈Wx3¹/₄Hx4⁵/₈D in.

Ameritron's RCS-10 remote coax switch selects one of eight antennas using an inexpensive three or four conductor control line (such as standard telephone wire).

Eliminate a tangle of troublesome coax and have a simple and neat installation --

AMERITRON . . . The World's High Power Leader

101

AMERITRON Automatic Remote Antenna Coax Switch

Automatically reads data from your transceiver and selects up to 8 pre-programmed antennas . . .

The RCS-12 is an automatic remote antenna switch. It reads information from the transceiver and selects the pre-programmed antenna automatically. Programming is as easy as a push of a button. It works with most Icom, Yaesu, Kenwood and other rigs that have a band data output line. It has a manual/automatic switch that will allow manual selection of antennas as well. It has eight LEDs to indicate which antenna is selected.

RCS-12 stops expensive antenna switching damage. No HOT switching with the RCS-12! It's late at night, there's a run of stations going, and the operator pushes a button. SWR shoots up! Even if the SWR Watch Protection kicks in, you still lose your run frequency while you look to see what happened, if you notice at all! At best you only lose your run frequency; at worse you lose an amplifier or antenna switch.

You've learned a painful lesson! The cost of a blown bandswitch or antenna relay pales in comparison to the price of a contest. You'll never know if this was your year because a split-second error turned you from a winner to a loser. It's another year before you can try again.

With a properly connected and programmed RCS-12 it is impossible to pick the wrong antenna. It is impossible to damage equipment by switching antennas while transmitting.

You no longer have to hover over guest operators like a mother hen; RCS-12 will not let them make an antenna switching mistake. Ameritron's RCS-12 is compati-



ble with virtually any antenna switching system. It works with BCD or one-of-eight outputs, and is fully compatible with 12 or 24 volt relay systems.

RCS-12 can handle directional control of two four-squares, or one four-square along with an assortment of other antennas. It can handle up to eight individual antennas. Any single position or combination of positions can be programmed for any particular band. The operator pushes an antenna selector button and the RCS-12 takes over.

The RCS 12 monitors the amplifier keying line. It prohibits antenna relay transfers while your amplifier is active. Simultaneously, it remembers what antenna function the operator called for. It switches at the first amplifier drop. It holds the amp off until switching is complete and relays are settled.

It monitors the band data from radios. The internal band decoder knows which groups of switch positions are allowed on each band. It prevents a distracted operator from picking the wrong switch position.

RCS-12C
\$239⁹⁵
Suggested Retail

When the radio changes bands the RCS-12 goes to the last antenna used for that band.

RCS-12 makes it impossible to put the radio on the wrong antenna. It's impossible to switch relays while the amplifier is on, whether you are switching stacks, directions, or antenna arrays or any combination of the three. RCS-12 works with four-squares, stacking systems, directional arrays and other combos of up to 8 antenna selections.

Measures 8 1/4Wx2 1/4Hx7D". 1.5 lbs.

RCS-12, \$309.95 includes automatic controller and 8 position relay box. Covers DC to 100 Mhz and handles over 5KW @ 50 ohm below 30 MHZ. Powered with 10-15VDC or with 120VAC adaptor, included. Order RCS-12X for 220VAC operation.

RCS-12L, \$349.95 RCS-12 with lightning surge protection.

RCS-12C, \$239.95. Automatic Controller only. 110VAC, compatible with RCS-8V/RCS-10 outdoor relay boxes.

*Not compatible with Kenwood TS-480, or TS-2000 transceivers.

RCS-12 to Rig pre-wired Cables . . . \$24.95

DB-13D	For Icom 706, 7000, 718 rigs
DB-7DI	For Icom ACC 2
DB-7DK	For Kenwood TS-2000, 570, 870
DB-DB8MK	For Kenwood TS-480
DB-DBY	For Yaesu FT-847 CAT Port
DB-8MY	For Yaesu FT-847 Tune Port
DB-8MY2	For Yaesu FT-897/857/100/817/840/890/990
DB-8DY	For ALL Yaesu rigs with 8 Pin CAT

AMERITRON EXTENDED WARRANTY PLAN

Ameritron's extended warranty plan is the same as the original warranty, just extended for the amount of months described on your purchase invoice. The extended warranty warrants to the purchaser that if the product should fail during the agreed term, Ameritron has the option to repair or replace part (s) except tube and output transistors) and provide necessary labor free of charge. Warranty repair can only be done at the Ameritron facility. Purchaser must return defective product to Ameritron prepaid in its original packing or equivalent. Ameritron is not responsible for loss or damage due to shipping.

WHAT IS COVERED

Necessary labor done at Ameritron to repair the product back to specifications. Return shipping (within the United States at Ameritron's choice of shipping) with insurance at replacement cost.

WHAT IS NOT COVERED

Repairs done by unauthorized

Ameritron facility. Returning of product to Ameritron facility. Shipping and labor to replace light bulbs and fuses accessible by the owner. Parts damaged due to shipping damage. Parts damaged due to misuse, neglect, intentional, accidental or improper installation. Cosmetic defects, dents, scratches, peeling, rusting, corrosion and chips. Maintenance and cleaning. Flood, fire, lightning and any other act of nature. PA tubes and RF Output Transistors (shipping and labor are covered). Unauthorized modifications made to the product. Returning of product with no problem detected. Return shipping is NOT covered on products sent in for services listed under "What is NOT covered".

HOW TO ORDER

If your Ameritron product is still within its original warranty, contact Ameritron by phone, fax, mail or email with model of product, serial number, date of purchase and dealer purchased from.

If your Ameritron product was purchased used or is out of its original warranty, the product will need to be sent to Ameritron production facility prepaid shipping for evaluation.

Call 1-800-713-3550. Use the chart (right) to order a one year or two year extended warranty plan. For full details of the warranty plan, contact Ameritron direct, 1-662-323-8211. Customer must contact the Ameritron factory before shipping. Ship to address: Ameritron, 116 Willow Road, Starkville, MS 39759.

Amp Model #	1 Year ext. Warranty	2 Year ext. Warranty
AL-1500	\$129.00	\$250.00
AL-1200	\$129.00	\$250.00
AL-82	\$124.00	\$240.00
AL-572	\$89.00	\$160.00
AL-80B	\$89.00	\$160.00
AL-800	\$89.00	\$160.00
AL-800H	\$129.00	\$249.00
AL-811	\$69.00	\$129.00
AL-811H	\$79.00	\$149.00
ALS-600	\$69.00	\$129.00
ALS-500M	\$49.00	\$95.00
ATR-30	\$29.00	\$55.00

AMERITRON is an authorized Eimac^(R) Tube Distributor . . .

•Taylor 3-500G - \$219 •Eimac^R 3CX1200A7 - \$1345 •Eimac^R 3CX1500A7/8877 - \$1389 •Eimac^R 3CX800A7 - \$974
• 811A - (1) - \$24.95; (2 match) - \$54.95; (3M) - \$79.95; (4M) - \$109.95 •572B (1) - \$59.95

For your nearest AMERITRON dealer: Call 1-800-713-3550
For Technical Information or parts order: Call (662) 323-8211

For service, return amplifier with letter of explanation to: AMERITRON, 116 Willow Road, Starkville, MS 39759, USA.

All products manufactured by AMERITRON have a one year limited warranty. Ameritron's AL-80B amplifier carries a two year limited warranty. *All transmitter tubes are warranted by the tube manufacturers. Prices and specifications subject to change without notice or obligation. *Except as noted. (c) 2011 AMERITRON Catalog 0811.